COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF INDUSTRIAL ACCIDENTS

REVIEW CRITERIA EFFECTIVE OCTOBER 1, 1998

GUIDELINE NUMBER 28 - DIAGNOSIS AND INITIAL TREATMENT OF OCCUPATIONAL ASTHMA

I. Narrative Description:

A. Occupational Asthma

II. History/Symptoms:

- **A.** Must meet the following:
 - 1. Asthma diagnosed by medical doctor; and
 - 2. Historical association between onset of asthma and work

OR

- 3. A diagnosis of Occupational Asthma; and
- **4.** A history of asthma prior to the occupational exposure in question

AND

- **5.** Documentation of workplace exposure to a category of agents or processes associated with asthma: **or**
 - a. Work-related change in FEV1 or in peak expiratory flow (PEF); or
 - **b.** Onset of respiratory signs and/or symptoms within hours after an acute, high level, occupational inhalation exposure to an irritant (RADS)

AND

III. Diagnostic Testing Allowed:

- **A.** Spirometry Studies, consisting of a minimum of 3 and a maximum of 8 *maneuvers* (max. 11 *studies* allowed): **and**
 - 1. The initial study is performed pre- and post-inhaled bronchodilator (required); and
 - 2. No more than 2 follow-up studies are allowed to establish a diagnosis of asthma; and
 - **3.** *No more than* 8 pre- and post-shift studies at the beginning and end of each work week for 2 weeks max. allowed; **and**
 - **4.** Peak Expiratory Flow (PEF) tests taken by the patient (required); and
 - **a.** The best of at least 3 maneuver *readings* per test recorded by the patient (required); and
 - **b.** Tests taken at the same time each day, 4 to 5 times per day; and
 - c. Taken 7 days per week (max. 4 weeks); and
 - 5. If PEF diary and spirometric monitoring are equivocal, then
 - a. 1 repeat study (max.) allowed at beginning of absence from work; and
 - **b.** 1 repeat study (max.) allowed at end of absence from work; and
 - c. PEF diary monitoring repeated

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B. A Non-Specific Inhalation Challenge Test (one allowed)

IF

- 1. No significant improvement in FEV1 in response to inhaled brochodilator; and
- 2. Existence of airways hyper-reactivity remains in question; and
- 3. Test is performed in a hospital-based outpatient setting (required); and
- **4.** Performed consistent with Treatment Guideline Number 28 appended algorithm (required); and
- 5. Under the supervision of a medical doctor experienced in this procedure (required)
- C. A Specific Inhalation Challenge Test (one allowed) and/or Specific Skin Tests (max. 10 allowed) with relevant antigens

IF

- 1. Performed by a medical doctor experienced in this procedure (required); and
- **2.** Performed in a *hospital-based* outpatient setting (required)
- **D.** Chest x-rays (max. 1 postero-anterior and 1 lateral view allowed)
- **E.** Latex and laboratory animal dander RAST tests (max. 1 allowed per antigen)

IV. Treatment Measures Allowed (within scope of license):

- **A.** Documentation in the medical record of discussion with the patient of risk of severe bronchospasm and/or death in the event of re-exposure, where the workplace exposure was to a sensitizing agent;
- **B.** Documentation in the medical record of discussion with the patient of the advisability of climination or significant reduction of exposure through the use of engineering controls and/or respiratory protection provided by the employer;

AND

C. Stepwise approach to pharmacological treatment of asthma according to the Guidelines;

AND

D. Documentation in the medical record that the physician has educated the patient with regard to important asthma signs and symptoms, issues around treatment, and monitoring of status.

V. <u>Discharge Plan Required:</u>

A. Documentation in the medical record that diagnosis is established and that the patient's asthma is stable with regard to symptoms and lung function prior to discharge from this Guideline.